

Claims

We claim:

1. A reagent for the determination of an analyte concentration in a patient wherein the degree of oxidation rate of a coenzyme is measured, that said reagent is stabilized against oxidation by a coenzyme reduction system comprising a special enzyme and a substrate pair selected so as to enable continuous regeneration of said coenzyme throughout storage of said reagent, characterized in that said reagent comprising an enzyme with complete specificity for said substrate.
2. The reagent of claim 1 which is configured as a single vial.
3. The reagent of claim 1 or 2 wherein said enzyme/substrate pair is glucose dehydrogenase/D-glucose.
4. The reagent of claim 3 wherein said analyte is aspartate transaminase.
5. The reagent of claim 4 wherein said glucose dehydrogenase in the range of 2-100U/L, said D-glucose from 0.1 to 20mmol/l.
6. The reagent of claim 5 wherein said glucose dehydrogenase in the range of 5-50U/L, said D-glucose from 1 to 10mmol/l.
7. The reagent of claim 3 wherein said analyte is alanine transaminase.
8. The reagent of claim 7 wherein said glucose dehydrogenase is in the range of 2-100U/L, said D-glucose from 0.1 to 20mmol/l.
9. The reagent of claim 8 wherein said glucose dehydrogenase is in the range of 2-50U/L, said D-glucose from 1 to 10mmol/l.

10. The reagent of claim 3 wherein said analyte is blood urea.
11. The reagent of claim 10 wherein said glucose dehydrogenase is in the range of 2-100U/L, said D-glucose from 0.1 to 20mmol/l.
12. The reagent of claim 11 wherein said glucose dehydrogenase is in the range of 5-50U/L, said D-glucose from 1 to 10mmol/l.